## INTERNATIONAL SEARCH REPORT

rnational Application No T/GB2004/002614

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A. CLASSII IPC 7	FICATION OF SUBJECT MATTER G01V1/28					
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	International Patent Classification (IPC) or to both national classification	ation and IPC				
	SEARCHED					
Minimum do IPC 7	cumentation searched (classification system followed by classification $GOIV$	on symbols)				
Documentati	ion searched other than minimum documentation to the extent that s	uch documents are inclu	ded in the fields se	earched		
Electronic da	ata base consulted during the international search (name of data bas	se and, where practical,	search terms used	)		
EPO-Int	ternal, INSPEC			•		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages		Relevant to claim No.		
<del></del>		<del></del>				
X	HIROKAZU MORIYA ET AL.: "Precise		Î	1-4,		
	location of AE doublets by spectr	al matrix		7-13,		
	analysis of triaxial hodogram" GEOPHYSICS,			15–19		
	vol. 59, no. 1, January 1994 (199	4-01),		•		
	pages 36-45, XP002303290		1			
l v	cited in the application the whole document			1-24		
[ ' ]	the whole document.			1-24		
Υ }	WO 97/39367 A (AMOCO CORP)		}	1-24		
}	23 October 1997 (1997-10-23)					
	page 4, lines 19-31 page 7, line 13 - page 9, line 5					
	figures 3,11		İ			
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Y Further documents are listed in the continuation of box C. X Patent family members are listed in annex.						
° Special cat	tegories of cited documents:	"T" later document publ	ished after the inte	mational filing date		
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citation	or other special reason (as specified)		red to involve an inv	entive step when the		
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Date of the a	actual completion of the international search	Date of mailing of th	ne international sea	rch report		
29	9 October 2004	09/11/2004				
Name and m	Name and mailing address of the ISA Authorized officer					
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tol (23, 70) 340-3040 Tv. 31,651 epg.nl			·		
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## INTERNATIONAL SEARCH REPORT

rnational Application No T/GB2004/002614

		T/GB2004/002614		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	VANCE J B ET AL: "IMPROVED DETERMINATION OF MICROSEISMIC SOURCE LOCATION USING A SIMPLEX TECHNIQUE" IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, IEEE INC. NEW YORK, US, vol. 24, no. 4, 1 July 1988 (1988-07-01), pages 666-671, XP000005898 ISSN: 0093-9994 the whole document	1-24		
A	US 2001/047245 A1 (SCHWARTZBARD ALAN E ET AL) 29 November 2001 (2001-11-29) page 3, paragraph 24 - page 5, paragraph 45 figures 1-4	1-24		
A	US 6 018 498 A (GRISMORE JOHN RICHARD ET AL) 25 January 2000 (2000-01-25) column 4, line 55 - column 8, line 61 figures 1-10	1-24		
		<b>†</b>		
		· ·		

## INTERNATIONAL SEARCH REPORT

Information on patent family members

rnational Application No T/GB2004/002614

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9739367 A	23-10-1997	AU AU	710968 B2 1824797 A	30-09-1999 07-11-1997
•	•	CA	2220274 A1	23-10-1997
	•	EP	0832442 A1	01-04-1998
		NO	975784 A	12-02-1998
		RU	2169931 C2	27-06-2001
		WO	9739367 A1	23-10-1997
		US	5892732 A	06-04-1999
US 2001047245 A	1 29-11-2001	AU	5330701 A	30-10-2001
		CA	2405577 A1	25-10-2001
		GB	2377021 A ,B	31-12-2002
		NO	20024970 A	12-12-2002
		WO	0179889 A1	25-10-2001
US 6018498 A	25-01-2000	ΑÙ	747146 B2	09-05-2002
		UΑ	5775299 A	27~03~2000
	+	CA	2341469 A1	16-03-2000
		CN	1321249 T	07-11-2001
		EP	1110104 A1	27~06~2001
		NO	20011092 A	02-05-2001
	·	WO	0014575 A1	16-03-2000